

#11

PPI-119



1

SEQUENCE LISTING

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Phillips, Kathryn  
Hannig, Gerhard

<120> ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF

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<140> 09/847,946

<141> 2001-05-02

<150> 60/201,261

<151> 2000-05-02

<150> 09/643,260

<151> 2000-08-22

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&lt;400&gt; 12

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&lt;211&gt; 6

&lt;212&gt; PRT

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Thr Ala Ala Asp Trp Ser Trp Ala Gln Thr  
1 5 10

&lt;210&gt; 75

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 75

Thr Ala Ala Asp Trp Ser Trp Ala Gln  
1 5

<210> 76  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 76  
Ala Ala Asp Trp Ser Trp Ala Gln Thr  
1 5

<210> 77  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 77  
Ala Asp Trp Ser Trp Ala Gln  
1 5

<210> 78  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 78  
Ala Asp Trp Ser Trp Ala Gln Thr  
1 5

<210> 79  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 79  
Thr Ala Leu Asp Phe Ser Trp Leu Gln Thr Glu  
1 5 10

<210> 80  
<211> 9  
<212> PRT  
<213> Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 80

Leu Asp Phe Ser Trp Leu Gln Thr Glu  
1 5

&lt;210&gt; 81

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 81

Thr Ala Leu Asp Phe Ser Trp Leu  
1 5

&lt;210&gt; 82

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 82

Ala Leu Asp Phe Ser Trp Leu Gln Thr Glu  
1 5 10

&lt;210&gt; 83

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 83

Leu Asp Phe Ser Trp Leu Gln Thr Glu  
1 5

&lt;210&gt; 84

&lt;211&gt; 6

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 84

Leu Asp Phe Ser Trp Leu  
1 5

<210> 85  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 85  
Thr Ala Leu Asp Phe Ser Trp Leu Gln Thr  
1 5 10

<210> 86  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 86  
Thr Ala Leu Asp Phe Ser Trp Leu Gln  
1 5

<210> 87  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 87  
Ala Leu Asp Phe Ser Trp Leu Gln Thr  
1 5

<210> 88  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 88  
Leu Asp Phe Ser Trp Leu Gln  
1 5

<210> 89  
<211> 8  
<212> PRT  
<213> Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 89

Leu Asp Phe Ser Trp Leu Gln Thr  
1 5

&lt;210&gt; 90

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 90

Thr Ala Leu Asp Tyr Ser Trp Leu Gln Thr Glu  
1 5 10

&lt;210&gt; 91

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 91

Leu Asp Tyr Ser Trp Leu Gln Thr Glu  
1 5

&lt;210&gt; 92

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 92

Thr Ala Leu Asp Tyr Ser Trp Leu  
1 5

&lt;210&gt; 93

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 93

Ala Leu Asp Tyr Ser Trp Leu Gln Thr Glu  
1 5 10

<210> 94  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 94  
Leu Asp Tyr Ser Trp Leu Gln Thr Glu  
1 5

<210> 95  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 95  
Leu Asp Tyr Ser Trp Leu  
1 5

<210> 96  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 96  
Thr Ala Leu Asp Tyr Ser Trp Leu Gln Thr  
1 5 10

<210> 97  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 97  
Thr Ala Leu Asp Tyr Ser Trp Leu Gln  
1 5

<210> 98  
<211> 9  
<212> PRT  
<213> Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 98

Ala Leu Asp Tyr Ser Trp Leu Gln Thr  
1 5

&lt;210&gt; 99

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 99

Leu Asp Tyr Ser Trp Leu Gln  
1 5

&lt;210&gt; 100

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 100

Leu Asp Tyr Ser Trp Leu Gln Thr  
1 5

&lt;210&gt; 101

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 101

Thr Ala Leu Asp Trp Ala Trp Leu Gln Thr Glu  
1 5 10

&lt;210&gt; 102

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 102

Leu Asp Trp Ala Trp Leu Gln Thr Glu  
1 5

<210> 103  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 103  
Thr Ala Leu Asp Trp Ala Trp Leu  
1 5

<210> 104  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 104  
Ala Leu Asp Trp Ala Trp Leu Gln Thr Glu  
1 5 10

<210> 105  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 105  
Leu Asp Trp Ala Trp Leu Gln Thr Glu  
1 5

<210> 106  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 106  
Leu Asp Trp Ala Trp Leu  
1 5

<210> 107  
<211> 10  
<212> PRT  
<213> Artificial Sequence



&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 107

Thr Ala Leu Asp Trp Ala Trp Leu Gln Thr  
1 5 10

&lt;210&gt; 108

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 108

Thr Ala Leu Asp Trp Ala Trp Leu Gln  
1 5

&lt;210&gt; 109

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 109

Ala Leu Asp Trp Ala Trp Leu Gln Thr  
1 5

&lt;210&gt; 110

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 110

Leu Asp Trp Ala Trp Leu Gln  
1 5

&lt;210&gt; 111

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 111

Leu Asp Trp Ala Trp Leu Gln Thr  
1 5

<210> 112  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 112  
Thr Ala Leu Asp Trp Glu Trp Leu Gln Thr Glu  
1 5 10

<210> 113  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 113  
Leu Asp Trp Glu Trp Leu Gln Thr Glu  
1 5

<210> 114  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 114  
Thr Ala Leu Asp Trp Glu Trp Leu  
1 5

<210> 115  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 115  
Ala Leu Asp Trp Glu Trp Leu Gln Thr Glu  
1 5 10

<210> 116  
<211> 9  
<212> PRT  
<213> Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 116

Leu Asp Trp Glu Trp Leu Gln Thr Glu  
1 5

&lt;210&gt; 117

&lt;211&gt; 6

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 117

Leu Asp Trp Glu Trp Leu  
1 5

&lt;210&gt; 118

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 118

Thr Ala Leu Asp Trp Glu Trp Leu Gln Thr  
1 5 10

&lt;210&gt; 119

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 119

Thr Ala Leu Asp Trp Glu Trp Leu Gln  
1 5

&lt;210&gt; 120

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:NEMO binding  
sequence

&lt;400&gt; 120

Ala Leu Asp Trp Glu Trp Leu Gln Thr  
1 5

<210> 121  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 121  
Leu Asp Trp Glu Trp Leu Gln  
1 5

<210> 122  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:NEMO binding  
sequence

<400> 122  
Leu Asp Trp Glu Trp Leu Gln Thr  
1 5

<210> 123  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:membrane  
translocation domain

<400> 123  
Arg Arg Met Lys Trp Lys Lys  
1 5

<210> 124  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:membrane  
translocation domain

<400> 124  
Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg  
1 5 10

<210> 125  
<211> 11  
<212> PRT  
<213> Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:membrane  
translocation domain

&lt;400&gt; 125

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg  
1 5 10

&lt;210&gt; 126

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:membrane  
translocation domain

&lt;400&gt; 126

Tyr Ala Arg Lys Ala Arg Arg Gln Ala Arg Arg  
1 5 10

&lt;210&gt; 127

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:membrane  
translocation domain

&lt;400&gt; 127

Tyr Ala Arg Lys Ala Arg Arg Gln Ala Arg Arg  
1 5 10

&lt;210&gt; 128

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:membrane  
translocation domain

&lt;400&gt; 128

Tyr Ala Arg Ala Ala Arg Arg Ala Ala Arg Arg  
1 5 10

&lt;210&gt; 129

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:membrane  
translocation domain

&lt;400&gt; 129

Tyr Ala Arg Ala Ala Arg Arg Ala Ala Arg Arg  
1 5 10

<210> 130  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:membrane  
translocation domain

<400> 130  
Arg Arg Met Lys Trp Lys Lys  
1 5

<210> 131  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial  
Sequence:anti-inflammatory compound

<400> 131  
Arg Arg Met Lys Trp Lys Lys Thr Ala Leu Asp Trp Ser Trp Leu Gln  
1 5 10 15

Thr Glu

<210> 132  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial  
Sequence:anti-inflammatory compound

<400> 132  
Thr Ala Leu Asp Trp Ser Trp Leu Gln Thr Glu  
1 5 10

<210> 133  
<211> 22  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial  
Sequence:anti-inflammatory compound

<400> 133  
Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Thr Ala Leu Asp Trp  
1 5 10 15

Ser Trp Leu Gln Thr Glu  
20

<210> 134  
<211> 22  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial  
Sequence:anti-inflammatory compound

<400> 134  
Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Thr Ala Leu Asp Trp  
1 5 10 15  
Ser Trp Leu Gln Thr Glu  
20

<210> 135  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial  
Sequence:anti-inflammatory compound

<400> 135  
Arg Arg Arg Arg Arg Arg Arg Thr Ala Leu Asp Trp Ser Trp Leu Gln  
1 5 10 15  
Thr Glu

<210> 136  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial  
Sequence:anti-inflammatory compound

<400> 136  
Arg Arg Arg Arg Arg Arg Arg Thr Ala Leu Asp Trp Ser Trp Leu Gln  
1 5 10 15  
Thr Glu

<210> 137  
<211> 22  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial  
Sequence:anti-inflammatory compound

<400> 137  
Tyr Ala Arg Lys Ala Arg Arg Gln Ala Arg Arg Thr Ala Leu Asp Trp

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32

1

5

10

15

Ser Trp Leu Gln Thr Glu  
20

<210> 138

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial  
Sequence:anti-inflammatory compound

<400> 138

Tyr Ala Arg Lys Ala Arg Arg Gln Ala Arg Arg Thr Ala Leu Asp Trp  
1 5 10 15

Ser Trp Leu Gln Thr Glu  
20

<210> 139

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial  
Sequence:anti-inflammatory compound

<400> 139

Tyr Ala Arg Ala Ala Arg Arg Ala Ala Arg Arg Thr Ala Leu Asp Trp  
1 5 10 15

Ser Trp Leu Gln Thr Glu  
20

<210> 140

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial  
Sequence:anti-inflammatory compound

<400> 140

Thr Ala Leu Asp Trp Ser Trp Leu Gln Thr Glu  
1 5 10

<210> 141

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial  
Sequence:anti-inflammatory compound



&lt;400&gt; 141

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Leu Asp Trp Ser Trp  
1 5 10 15

Leu

&lt;210&gt; 142

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial  
Sequence:anti-inflammatory compound

&lt;400&gt; 142

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Leu Asp Trp Ser Trp  
1 5 10 15

Leu

&lt;210&gt; 143

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial  
Sequence:anti-inflammatory compound

&lt;400&gt; 143

Arg Arg Met Lys Trp Lys Lys Leu Asp Trp Ser Trp Leu  
1 5 10

&lt;210&gt; 144

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial  
Sequence:anti-inflammatory compound

&lt;400&gt; 144

Arg Arg Met Lys Trp Lys Lys Leu Asp Trp Ser Trp Leu  
1 5 10

&lt;210&gt; 145

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial  
Sequence:anti-inflammatory compound

&lt;400&gt; 145

Arg Arg Arg Arg Arg Arg Arg Leu Asp Trp Ser Trp Leu  
1 5 10

<210> 146

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial  
Sequence:anti-inflammatory compound

<400> 146

Tyr Ala Arg Ala Ala Arg Arg Ala Ala Arg Arg Leu Asp Trp Ser Trp  
1 5 10 15

Leu

<210> 147

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial  
Sequence:anti-inflammatory compound

<400> 147

Tyr Ala Arg Ala Ala Arg Arg Ala Ala Arg Arg Leu Asp Trp Ser Trp  
1 5 10 15

Leu

<210> 148

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial  
Sequence:anti-inflammatory compound

<400> 148

Arg Arg Arg Arg Arg Arg Arg Leu Asp Trp Ser Trp Leu  
1 5 10

<210> 149

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial  
Sequence:mebrane translocation domain

<400> 149

Arg Arg Arg Arg Arg Arg

1

5

&lt;210&gt; 150

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial

Sequence:mebrane translocation domain

&lt;400&gt; 150

Arg Arg Arg Arg Arg Arg Arg

1

5

&lt;210&gt; 151

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial

Sequence:mebrane translocation domain

&lt;400&gt; 151

Arg Arg Arg Arg Arg Arg Arg Arg

1

5

&lt;210&gt; 152

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial

Sequence: mebrane translocation domain

&lt;400&gt; 152

Arg Arg Arg Arg Arg Arg Arg Arg

1

5

&lt;210&gt; 153

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial

Sequence:mebrane translocation domain

&lt;400&gt; 153

Arg Arg Arg Arg Arg Arg Arg Arg Arg

1

5

10

&lt;210&gt; 154

&lt;211&gt; 11

&lt;212&gt; PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial  
Sequence:mebrane translocation domain

<400> 154

Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg  
1 5 10

<210> 155

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial  
Sequence:mebrane translocation domain

<400> 155

Arg Arg Arg Arg Arg Arg  
1 5

<210> 156

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial  
Sequence:mebrane translocation domain

<400> 156

Arg Arg Arg Arg Arg Arg Arg  
1 5

<210> 157

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial  
Sequence:mebrane translocation domain

<400> 157

Arg Arg Arg Arg Arg Arg Arg  
1 5

<210> 158

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial

Sequence:mebrane translocation domain

<400> 158

Arg Arg Arg Arg Arg Arg Arg Arg  
1 5

<210> 159

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial  
Sequence:mebrane translocation domain

<400> 159

Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg  
1 5 10

<210> 160

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial  
Sequence:mebrane translocation domain

<400> 160

Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg  
1 5 10